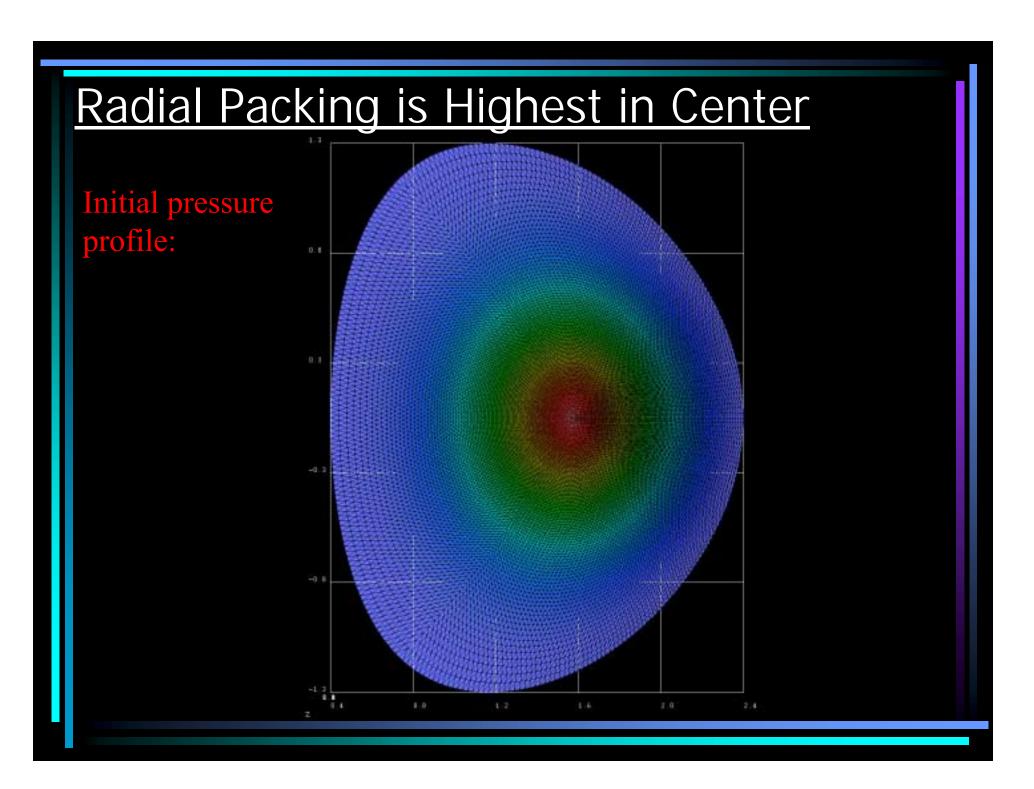
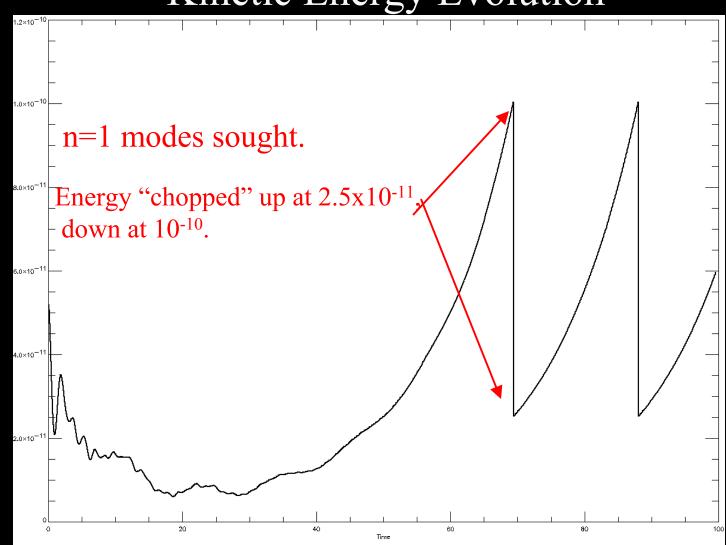
Initial CDX Study

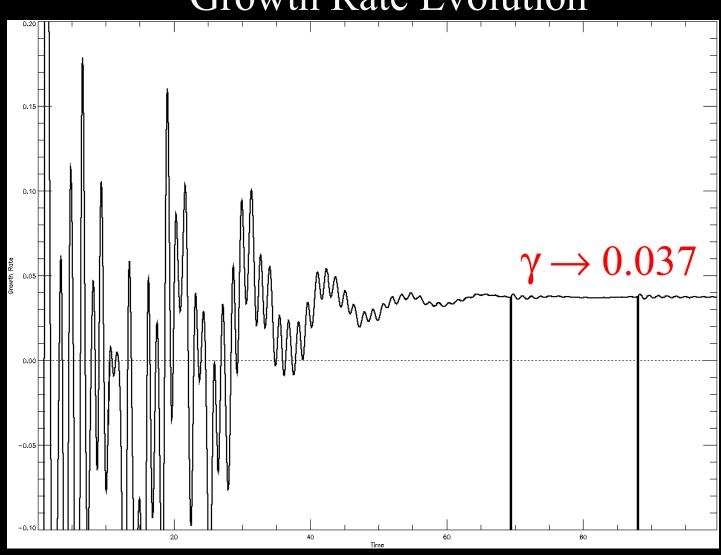
- Equilibrium read from file eqdsk.cdf.
 - Only field & pressure profiles; not ρ .
 - Constant $\eta = 10^{-4}$, $\mu = 10^{-4}$.
- Resistive MHD physics model.
- Converged linear study followed by nonlinear run.
- 99 radial zones × 3 poloidal sections × 30 toroidal planes = 436,620 vertices (864,360 finite elements) on 15 processors.



Initial CDX Study: Linear Phase Kinetic Energy Evolution

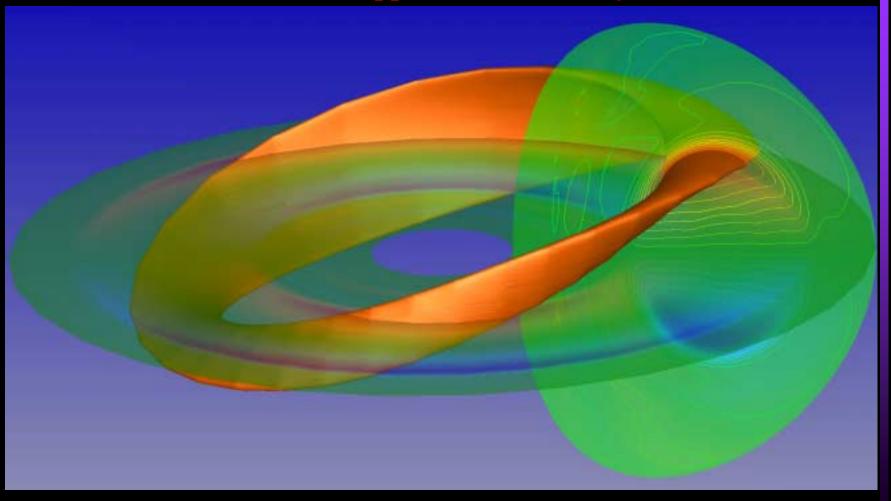


Initial CDX Study: Linear Phase Growth Rate Evolution



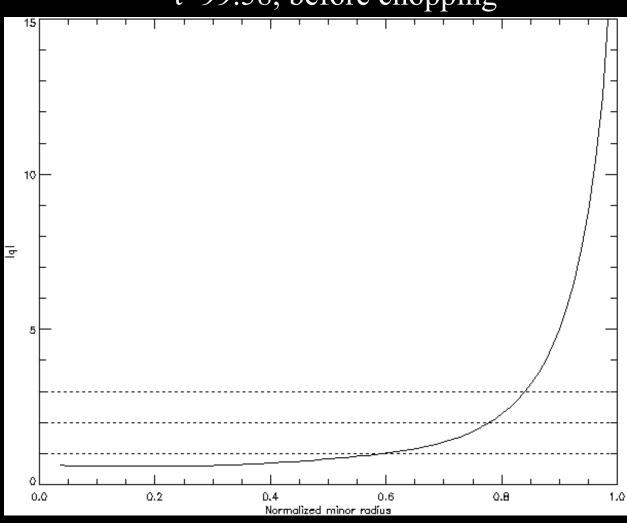
Mode Has 1,1 Structure

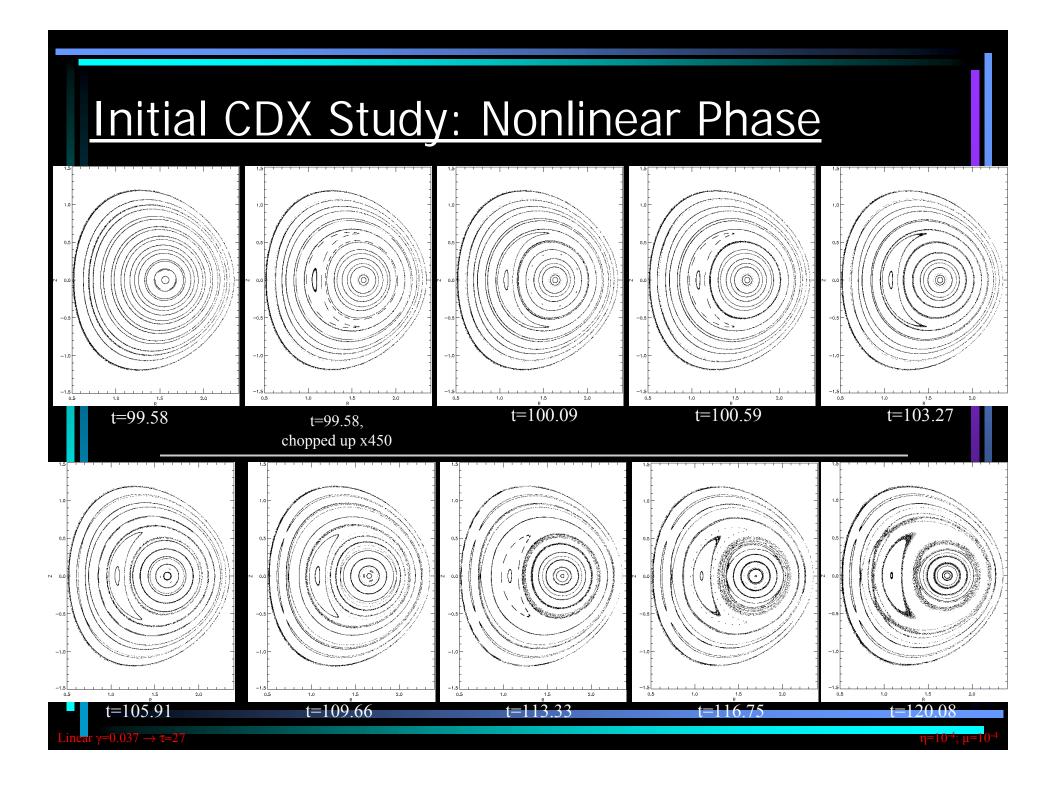
Isosurface and contours of approximate velocity stream function U:



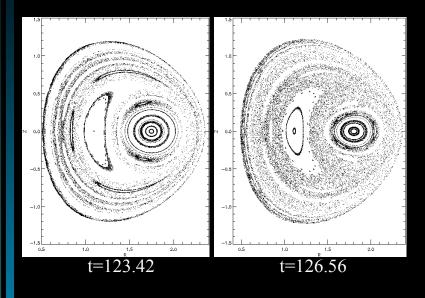
Initial CDX Study: q profile

t=99.58, before chopping





Initial CDX Study, Nonlinear Phase



Linear $\gamma=0.037 \rightarrow \tau \approx 27$